CONTENTS OF VOLUME 27

Volume 27 No. 1 August 1993

PHILIP D. KIRKITSOS and DENIS SIKIOTIS / Modifications of the Transition Flow Reactor Theory for the More Accurate Measurement of Nitric Acid and Nitrate and Ammonium Ions 1

BRIDGET N. BERO, MARGRIT C. VON BRAUN, CHARLES R. KNOWLES, and JOHN E. HAMMEL / The Use of X-Ray Fluorescence to Detect Lead Contamination of Carpeted Surfaces 17

MADBULI H. NOWEIR, MUSTAFA M. ALIDRISI, and MOHAMMAD S. AL-JIFFRY / Appraisal of Work Hazards and Safety in the Industrial Estate of Jeddah 35

DONNA SKIPPER and MARTY TITTLEBAUM / A Bench-Scale Rock-Plant Filter Investigation 69

Volume 27 No. 2 September 1993

HANS T. SCHREUDER and RAYMOND L. CZAPLEWSKI / Long-Term Strategy for the Statistical Design of a Forest Health Monitoring System 81

J. E. HEWITT, G. B. MCBRIDE, R. D. PRIDMORE, and S. F. THRUSH / Patchy Distributions: Optimising Sample Size 95

F. J. SERÓN ARBELOA, C. PÉREZ CASEIRAS, L. J. NOGUÉ LAHUERTA, and P. M. LATORRE ANDRÉS / Air Quality Monitoring for Multiple Pollutants: Optimization of a Network Around a Hypothetical Potash Plant and Two Thermal Power Stations in Open Countryside 107

ZSOLT E. KOVATS and JAN J. H. CIBOROWSKI / Organochlorine Contaminant Concentrations in Caddisfly Adults (*Trichoptera*) Collected from Great Lakes Connecting Channels 135

Volume 27 No. 3 September 1993

PETER W. ABRAHAMS, TREVOR D. DAVIES, TIMOTHY D. JICKELLS, and MARTYN TRANTER / Multi-element Geochemical Analysis of Snow Samples: Use of Discriminant Analysis in Interpreting the Results 159

LUCKY O. ODOKUMA and GIDEON C. OKPOKWASILI / Seasonal Ecology of Hydrocarbon-Utilizing Microbes in the Surface Waters of a River 175

F. RINCÓN-LEÓN, G. ZURERA-COSANO, R. MORENO-ROJAS, and M. AMARO-LÓPEZ / Importance of Eating Habits and Sample Size in the Estimation of Environmental Mercury Contamination Using Biological Indicators 193

MICHAEL R. STOLINE, RICHARD N. PASSERO, and MICHAEL J. BARCELONA / Statistical Trends in Ground-Water Monitoring Data at a Landfill Superfund Site: A Case Study 201

K. PILEGAARD / Biological Monitoring of Particulate Pollutants During Exploration Work at a Niobium Mineralization in Greenland 221

Author Index of Volume 27 233

Contents of Volume 27 235